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Published Documents 1876-1883 on Carpellary Scale | Carbody Octob 17 1876

Flora, 1876 No 25. Tept 1th p. 392 A.W. Pichler on G. Stengels Beobachtungen an dunchwachsenen Fichtenzapfen, in Nov. Art. Arad Leop. Car. 38 Freska 1876 52 pages, with & plates. An important paper, discussing and to a certain degree settling the question of the nature of morphology of the female flower of Coniferac. It also gives an arrount of Transformation of bruits of female inflorescences into stamina and proves that the ligneous pertion persistent) at the bese of Mirea leaves is part of the leaf itself and not of the axis. Our more accurate Knowledge of the Jemule flower of Abietinene commences with Robert Brown who pronounced the Trale an open carpellary leaf, bearing ovales on its inner upper side, Sokleiden considered it a flattened, leafless branch, so also Tayer and Baillon who, however, took the doubles of brown for pictels, constituted by two carpellary leaves with countral naked ovale. Carpany and A. Obracin thought the scale to represent an axillary branch bearing two open compellary leaves, connate with their anterior edges and each bearing an maked ovile on their upper surface. Cithler essentially outestained the same view, with except that he considered the orales as axillary products of these compellery leaves This is on the whole, also the belief of Mathergen, but he miles that these ornles are sistely produced



at the base of I flattened connate axes, on which the supposed leaves (in the axils of said the postits stand) romain sudimuter, Van Sieghem consideres The sale a single leaf at The base of a medimentary branch, turned, like the palea superior of the grasses, with its back (or lower side) towards the axis of the Cone, and assing on this outer side two naked writes. Mohl takes This vale not as a single leaf, but a two connate There , Such turn Their back towards the dox is -About principally on the Tructione of Principallys leaves of in which the Phloein is streeted towns the axis and the Kylein towns the brack, as van Tieghern was the first to show fin the "scales". Stingel found many abnormities of comes of Abries excelsa especially next the timberline in the Judetes I same in similar locality wear oderthous Pass in Colorado in Mericy Engelmanni Jahre The "Struggle for existence" produces singular monstroseties He found as extremest abnormity a branchlet in the axil of the breet, with two lovest posteriors leaves prometimes somewhat connate) and offen bearing medimentary ovules on the back) the next two leaves are predian (anterior and posterior) Therefore: The scale consists of the two loved leaves of an undwoloped branchlet in the originating in the axil of the but, the posterior (superior) edges of these leaves being Connete and turning the leaves turning their back towards



I the axis of the cone, and bearing on this side each me ovule. This is entirely mobile explanation.

proved by mostrosities. Steagel extends this view of the femile flower of Febres ex relsa nall Conspense und probably with county. The dorsal prickle on many the scale of many prines frime, pungues, Sabiniana et et f may be, morphologisely the tip of a third (leng) median. The greatest difficulty is the most unusual appearance of ovales on the donal side of the fruit scales. It is not found in any angio spermous plant. Thy are real ovules, born on the buthoff open carpellary scales, and the Abole voler with its ovoles constitutes the female flaver The anther cells are also born on the back of the Stand blatt, stammeous scale The same is the case with Cyradene and the soften. clearly bear the overles on the lower side [tack] and this is the common case of the ferns, dy oopstrone restail, kowever, have the reverse shusture, Consisera therefore can not be considered as the progenty of Lyrapadian The general result is that Confine a Graduce from 9 netarene.

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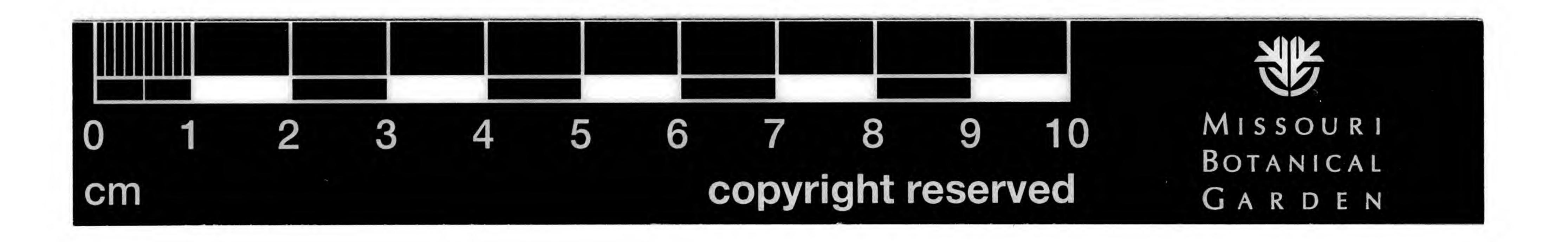
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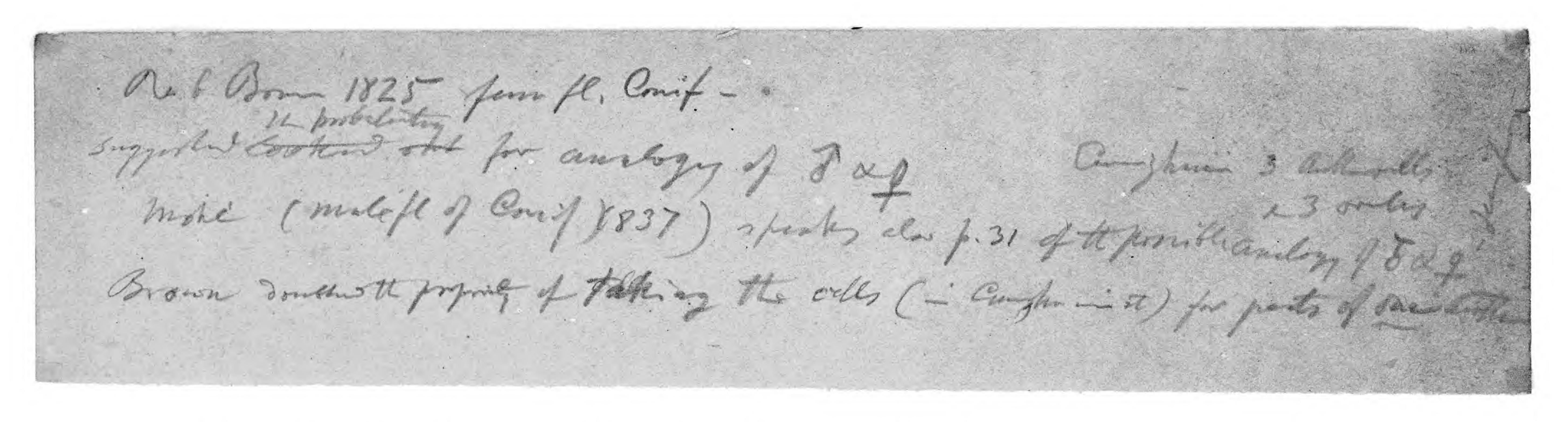
Walf. Ann M. 796 200. 1000 Tinus ex Avest. Cetal. 798 Pin. Paroliniana Visiami " P. bneteata Hoxk. Don 799 Theilicia Aut. X Mobiley 1853 Da odl. p.446 199. Miner of C. Koch a Dez Cangelin i Will Rep. ort 2. p. 746 Minn Grenvillene Linde M. Gordmiani Luce 1. Usnædersann List

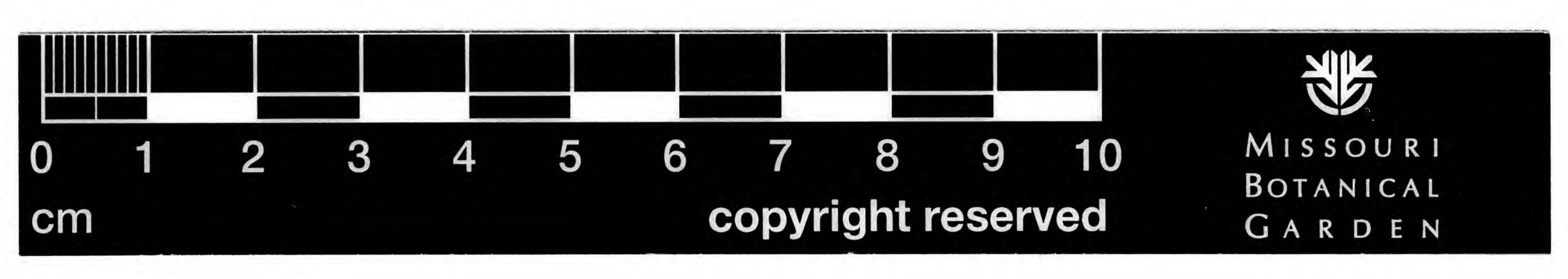


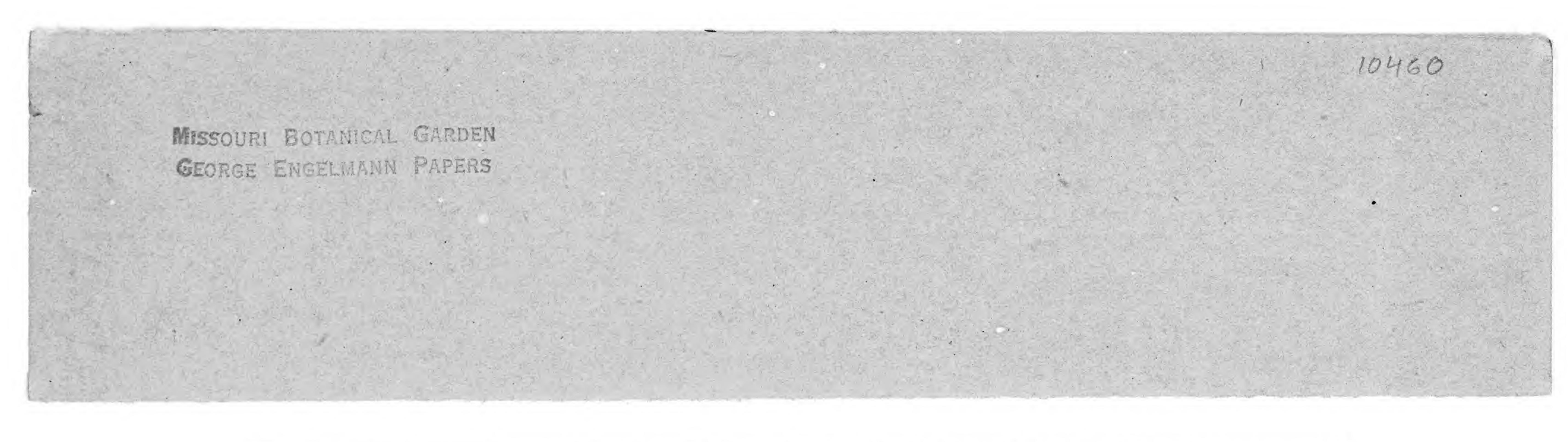
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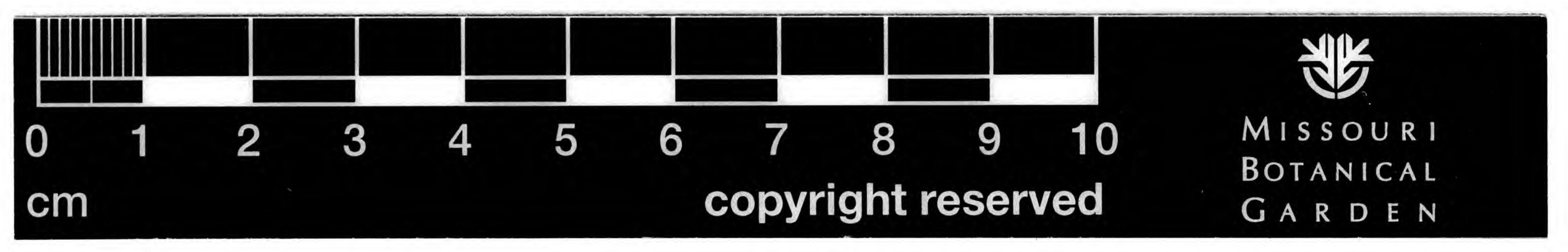
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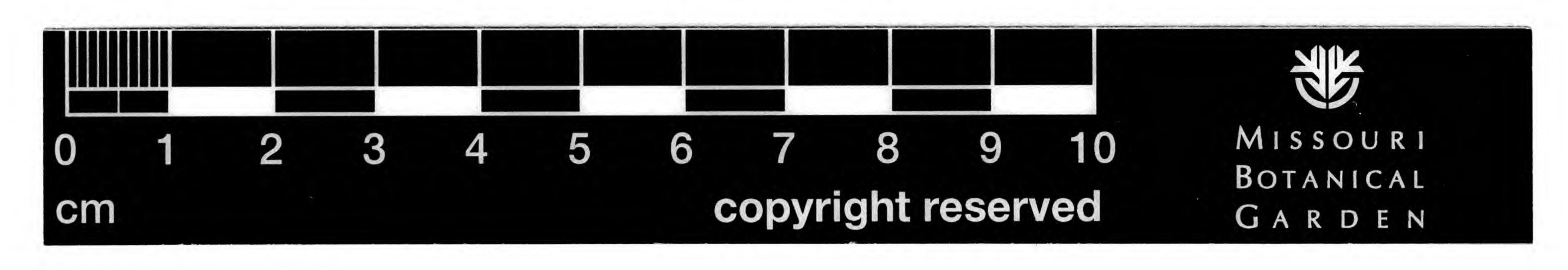


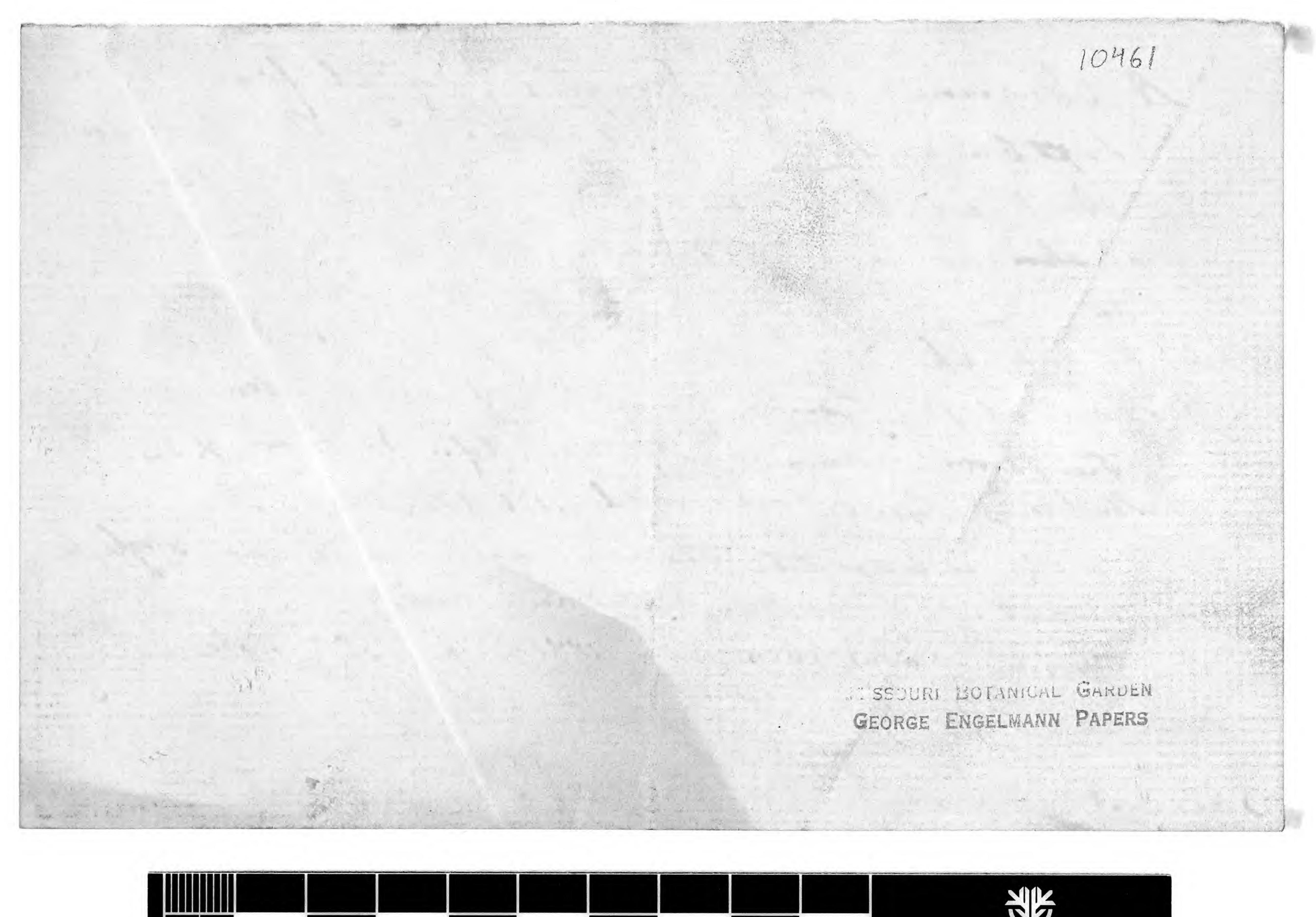


A Corner on the Congres scientifique de Mure - Shippourg 1842 first derbord the fruit sale of Abietinene tile composed of the two first leaves of an show ax day shoot, which beer on their back the orden Conderson from the study of monstructing of the larch. This from the printed record of This inventifier Congres . - Lee N. Braun's Lotten p. 335 See Pores - verbang de Congres Toientefier de Boure X dassie a Short hong Squa or 11/12 Tome 1 p. 171-172. The Report is not written by Braun Kinnself. Alexander Braun's Leben, Bet 1882, p. 335 note Reference - this note is also made to: Individuen der Oflange 1.65 (Berlin 1858)

Polyembryonie & Kermany von Caeleboggne 1.243

(Auti 1860) I have not Individuen der Pflage

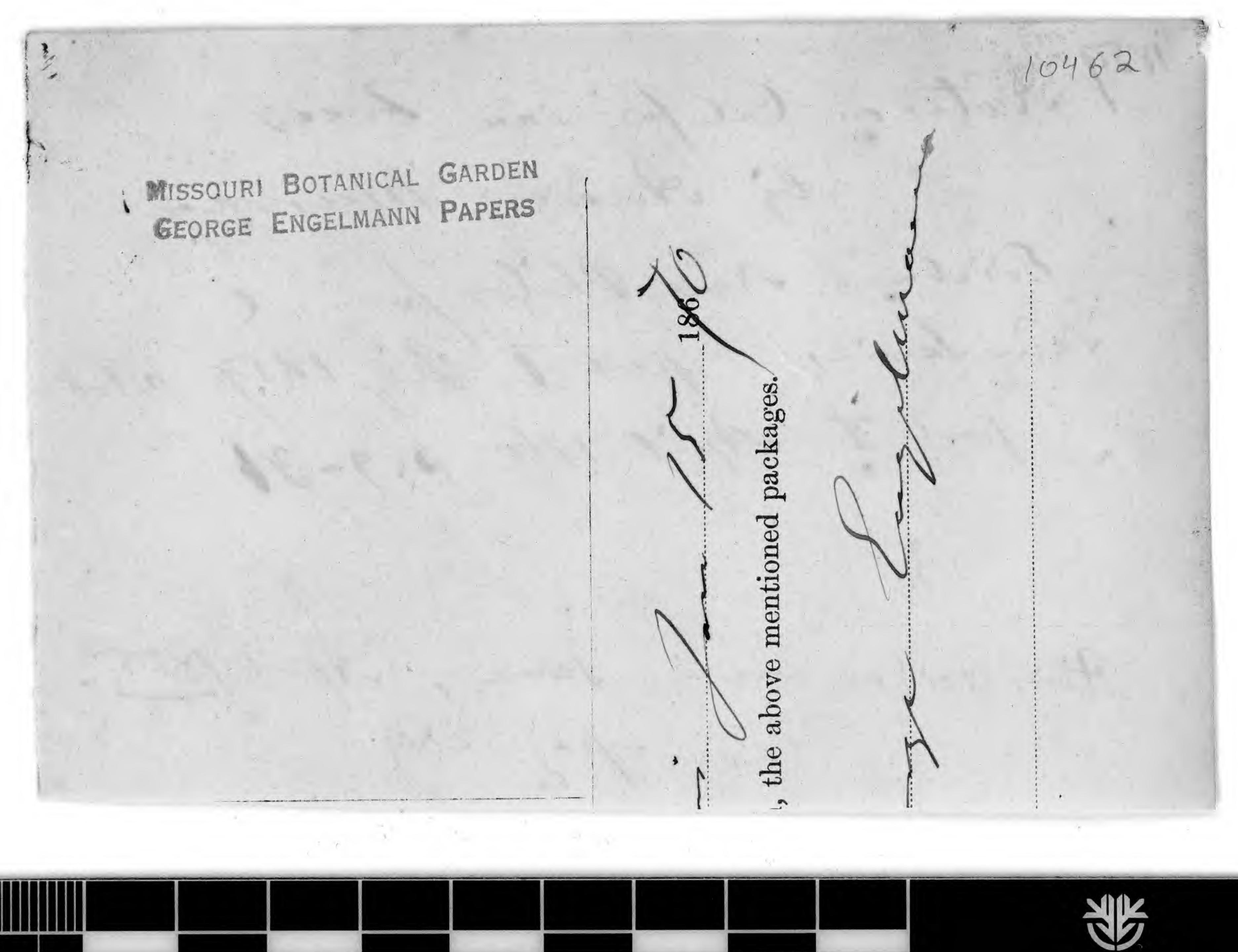


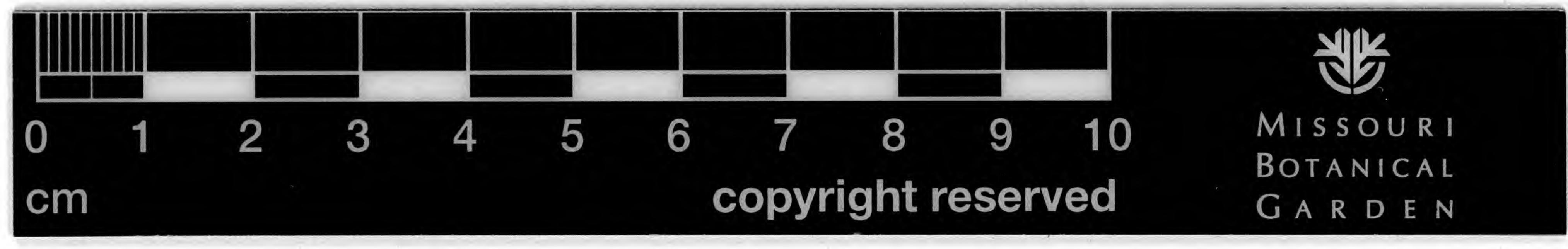




1859 Notes on Californian Trees by Andrew Murray - Corrbayh. New Miles, four Now Levier part I Lig 1859 p.1-8 part I April 1860 p. 9-31 Abry Hooker and in Jame, April 1855







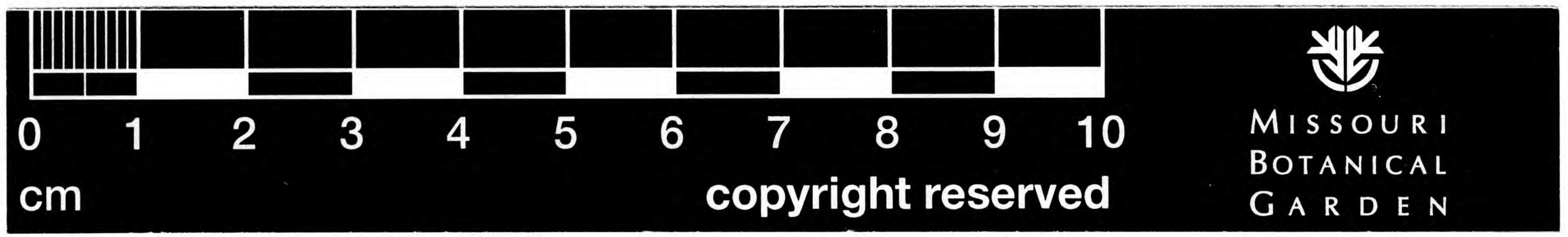
Ace Cambride Aug 25 SMITHSONIAN NSTITUTION, Dear Dr. Jugelmann.
After all to not think I meet to trouble grow in regard The actions, mules you think fit to Lend a few of your aurin a coouler. I find that I seeds given there fent his price cutalogue totall-

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del arg To examin into the growth at formation or is the outer conting of the seed formed by the carpel-scale, so that the somer thin membranareon road is the real testa? A would be nevernong to study the Levelopen of the seed to slear up The total Orating a remaint of the warlens GEURGE ENGELMANN PAPERS







Braun in Silynysterick ton

K. Acad. I wis Butin Oct 1869

suggests (plage 739 note) that the simplest explanation of the comparous female flower and uniform throughout the family would be, to consider the mere ownle above as the fem flower Land of course the cone as an inflorestance

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Corrosive Sublimate lounce Strongest Alcohol 1 guartin To porson plants with





